

METHOD AND SYSTEM FOR TEMPERATURE GRADIENT CONTROL IN AN ELECTRONICS SYSTEM

ABSTRACT OF THE DISCLOSURE

An apparatus includes a plurality of Transmit/Receive (T/R) modules (20) coupled with a slat assembly (34). The slat assembly includes a fluid passageway (54). A plurality of turbulence inducing structures (62, 162, 262, 104, 204, 304, 462) are disposed within the fluid passageway. In one embodiment, the turbulence inducing structures includes constrictions (62) extending from a surface (55) of the fluid passageway. The location and configuration of the structures is selected to achieve a predetermined temperature profile along the passageway, in response to fluid flow through the fluid passageway.